00-118



Qwest

1020 Nineteenth Street NW, Suite 700 Washington, DC 20036 Phone 202.429.3134 Facsimile 202.296.5157

Elridge A. Stafford Executive Director-Federal Regulatory

August 25, 2000

Mr. Dale Hatfield Chief, Office of Engineering and Technology Federal Communications Commission 445 12th Street, S.W., Room 7-C155 Washington, D.C. 20554

RE:

CFR 47, Section 63.100

Final Service Disruption Report, Denver, CO

DNVRCOCWDS0

Dear Mr. Hatfield:

On July 29, 2000, Qwest¹ experienced a Service Outage in Denver, CO. In accordance with the reporting rules, CFR 47, Section 63.100, enclosed is Qwest's Final Service Disruption Report for this outage.

Please contact me if you have questions concerning this report.

Sincerely,

Elridge A. Stafford

Attachment

cc:

Mr. Robert Kimball

Mr. Doug Sicker

¹ On June 30, 2000, U S WEST, Inc., the parent and sole shareholder of U S WEST Communications, Inc., merged with and into Qwest Communications International, Inc. Further, on July 6, 2000, U S WEST Communications, Inc. was renamed Qwest Corporation.

Final Service Disruption Report

Reporting Company: Qwestⁱ

Location of Disruption: Denver, CO (DNVRCOCWDS0)

1. Date and Time of Incident:

July 29, 2000, at 0624 MDT.

2. Geographic Area Affected:

Northwest Denver, CO metropolitan area.

3. Estimated Number of Customers Affected:

Approximately 34,542 Qwest customers were affected by the outage.

4A. Types of Services Affected:

Interoffice interLATA and intraLATA were affected.

4B. 911 Service Affected

911 service was not impacted.

5. Duration of Outage

Service was restored July 29, 2000, at 1125 MDT for a total duration of 5 hours 1 minute.

6. Estimated Number of Blocked Calls:

There were approximately 45,000 blocked calls.

7A. Root Cause of the Incident:

The root cause of the incident was employee error.

A central office technician (COT), while working on a simplex failure on a A-link in the Cottonwood office in Denver, CO, determined that the circuit pack at the D4 Channel bank needed to be replaced. The COT incorrectly optioned the new circuit pack at 64K instead of the appropriate 56K level which resulted in an SS7 isolation.

7B. Name and Type of Equipment:

D4 Channel Unit.

7C. Specific Part of Network Affected:

Interoffice transport requiring CCS signaling.

Page 2

8. Method(s) Used to Restore Service:

The following steps were taken to restore service:

◆ The circuit packs in the D4 Channel Units were re-optioned to the correct settings.

9. Steps Taken to Prevent Recurrence of Outage:

The following steps have been or will be taken to prevent recurrence of this problem:

♦ Appropriate discussions and additional training have been provided to the technician that incorrectly optioned the circuit packs.

10A. Applicable Best Practice(s):

Qwest reviewed <u>Network Reliability: A Report to the Nation</u>, June 1993 and evaluated all recommendations and best practices by focus area. Based on the root cause analysis, the most appropriate focus areas are:

Section B - Signaling Network Systems

Reference 6.1.1 - Root Cause Analysis on CCS Failures

Reference 6.2.1.7 - Labeling SS7 Equipment

Reference 6.2.1.8 – Integration of CCS/SS7 Key Functions and Processes

10B. Best Practice(s) Used:

Section B - Signaling Network Systems

Reference 6.1.1 – Root Cause Analysis on CCS Failures

Reference 6.2.1.7 - Labeling SS7 Equipment

Reference 6.2.1.8 – Integration of CCS/SS7 Key Functions and Processes

10C. Analysis of Effectiveness of Best Practice(s):

Section B - Signaling Network Systems

Reference 6.1.1 – Root Cause Analysis on CCS Failures

This best practice recommends that root cause analysis be performed on SS7 failures. Qwest has adopted this best practice. Qwest Local Network Operations performs root cause analysis on all major network events. The results of these reports are shared on a weekly conference call to discuss root cause.

Reference 6.2.1.7 – Labeling SS7 Equipment

This best practice recommends that all SS7 equipment be labeled for easy identification. Qwest has adopted this best practice as part of its Local Network Central Office Certification process. The SS7 links were not tagged in this office, but were tagged after restoration of the A-links was completed.

Reference 6.2.1.8 - Integration of CCS/SS7 Key Functions and Processes

This best practice recommends that functions and processes critical to successful operation of the CCS/SS7 network be combined into a single work group. Qwest has

Final Service Disruption Report 08/25/00

Page 3

implemented this best practice. In addition, Qwest Local Network Operations maintains a Network Management Center (NMC) that works closely with the CCS/SS7 group during SS7 failures. The NMC implements network controls where required and facilitates the restoration process.

Contact Person:

Elridge Stafford, Executive Director – Federal Regulatory Qwest 1020 19th Street, NW, Suite 700 Washington, D. C. 20036 Telephone (202) 429-3136

On June 30, 2000, U.S. WEST, Inc., the parent and sole shareholder of U.S. WEST Communications, Inc., merged with and into Qwest Communications International, Inc. Further, on July 6, 2000, U.S. WEST Communications, Inc. was renamed Qwest Corporation.

FCC INITIAL REPORT

00-118

QWEST - Large Scale Abnormal Condition Report (LSACR) Service Disruption Report

[] 120 MINUTE REPORT [X] 3 DAY REPORT	ACR #: CO. 000729. 001
Date Of Incident: 7/29/66 Time Of Incident	: 6:08 AM MOT
Date Of Incident:	- COLDEAN COLDEN
Geographic Area Directly Affected:	es, LATA(a), States(s))
CLI code (s) for affected area: DNVKCOCAID	SP
Estimated Number of Customers Affected: 34	U 5 93
Types of Services Affected (e.g. Local, Toll,	800, 911, FAA, etc.): <u>SST /SOCATION</u>
Duration of Outage (Hours & Minutes): 5 / 64	IRS MINUTES
Duration of Guedge (mount	LALUESTIGATION
Estimated Number of Blocked Calls: UNDER	
Apparent Cause of Incident: UNDER INC	
Method Used to Restore Service: UNDER	INVESTIGATION
MECHINA COM TO THE MECHINA	
Steps Taken to Prevent Recurrence:	INVESTIGATION
Steps Taken to Prevent Recording	
	200 100 0100
CONTACT PERSON: Kenneth Cartmell-Exec. Dir-F	Fed Regulatory Ph: 202-429-3136
Qwest 1020 19th Street NW Suite 70	
1020 19th Street NW Suite 70	-01-
Tim Mason	Dave Rygh
Vice President - NROC	Director - Network Management Center Ph: 303-707-5608
Ph: (303) 707-5100	Ouest
Qwest 700 W. Mineral, Littleton, CO 80120	700 W. Mineral, Littleton, CO 80120
Date Reported to FCC: 7/31/88	Time Reported to FCC: 3:29 Pm moT
Person Faxing Report: KATHLEEN RHODES	(Include AM/PM, Time Zone) Time Confirmed with FCC:
Telephone Number: 363-767-6886	FCC Contact Name:
1910hiono miles	
PRI FAX: Monitoring Watch Officer (202	A18-2812-Confirm at (202) 632-6975
	TUBLA TON MANAGEMENT OF THE PROPERTY OF THE PR
The Fau to Owest Federal Relations VIIIce of	((202) 230-310,
11co EAV eo. Karen Eccli/Jane Quigley (303) /	01-7572
NISO FAY to: Glenda Weibel (206) 345-4125	
Also FAX to: Bev Sharpe (303) 694-1719	